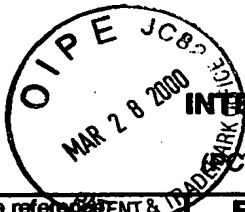


PCT



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 60314-115		FOR FURTHER ACTION		see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US 99/ 24598	International filing date (day/month/year) 21/10/1999	(Earliest) Priority Date (day/month/year) 22/10/1998		
Applicant MAGELLAN DIS, INC.				

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

5

☐ None of the figures.

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G01C21/26 G08G1/0969

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 G01C G09B G08G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 10, 31 October 1996 (1996-10-31) & JP 08 145708 A (SUMITOMO ELECTRIC IND LTD), 7 June 1996 (1996-06-07) abstract	1-29
A	US 4 914 605 A (LOUGHMILLER JR GEORGE E ET AL) 3 April 1990 (1990-04-03) the whole document	1-29
A	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 10, 31 October 1996 (1996-10-31) & JP 08 145701 A (ALPINE ELECTRON INC), 7 June 1996 (1996-06-07) abstract	1-29
-/-		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

2 March 2000

Date of mailing of the international search report

09/03/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax (+31-70) 340-3018

Authorized officer

Crechet, P

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 398 188 A (MARUYAMA KOJI) 14 March 1995 (1995-03-14) column 3, line 28 - line 68 column 4, line 21 - line 27 column 4, line 40 - line 60	1-29
A	EP 0 838 662 A (XANAVI INFORMATICS CORP) 29 April 1998 (1998-04-29) column 2, line 38 - line 56	1-29
A	US 5 285 391 A (SMITH JR BERNARD C ET AL) 8 February 1994 (1994-02-08) column 6, line 29 -column 7, line 19	1-29
A	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 02, 29 February 1996 (1996-02-29) & JP 07 270172 A (SUMITOMO ELECTRIC IND LTD), 20 October 1995 (1995-10-20) abstract	1
A	EP 0 306 088 A (PHILIPS NV) 8 March 1989 (1989-03-08) the whole document	1-29

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 08145708	A	07-06-1996	NONE	
US 4914605	A	03-04-1990	AT 146890 T	15-01-1997
			AU 5064485 A	15-05-1986
			CA 1248630 A	10-01-1989
			DE 3588138 D	06-02-1997
			DE 3588138 T	17-04-1997
			EP 0199780 A	05-11-1986
			ES 548848 A	16-05-1989
			IE 76913 B	05-11-1997
			JP 11325924 A	26-11-1999
			JP 10143067 A	29-05-1998
			JP 10149094 A	02-06-1998
			JP 10143068 A	29-05-1998
			JP 2883322 B	19-04-1999
			JP 10260629 A	29-09-1998
			JP 2813977 B	22-10-1998
			JP 10143069 A	29-05-1998
			JP 10149095 A	02-06-1998
			JP 10149096 A	02-06-1998
			JP 6025909 B	06-04-1994
			JP 62501650 T	02-07-1987
			MX 171145 B	04-10-1993
			PT 81349 A,B	01-11-1985
			WO 8602764 A	09-05-1986
			ZA 8508112 A	24-06-1987
JP 08145701	A	07-06-1996	NONE	
US 5398188	A	14-03-1995	JP 2611592 B	21-05-1997
			JP 5158407 A	25-06-1993
			DE 4242387 A	17-06-1993
EP 0838662	A	29-04-1998	JP 10122887 A	15-05-1998
			US 5951622 A	14-09-1999
US 5285391	A	08-02-1994	WO 9303452 A	18-02-1993
JP 07270172	A	20-10-1995	NONE	
EP 0306088	A	08-03-1989	NL 8702087 A	03-04-1989
			JP 1094482 A	13-04-1989
			JP 2801215 B	21-09-1998
			US 4996645 A	26-02-1991